#### Introduction to SBIR / STTR Programs

#### **Small Business Innovation Research (SBIR)**

Small Business set-aside program for Federal R&D – with potential for commercialization

#### **Small Business Technology Transfer (STTR)**

A sister set-aside program facilitates cooperative R&D between small business concerns and U.S. research institutions – with potential for commercialization

#### MODERATOR:

Dr. Joseph Grant

Deputy Program Executive SBIR/STTR Program Space Technology Mission Directorate

**NASA Headquarters** 

#### **PANELISTS**:

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U.S. Department of Army

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Program Manager SBIR/STTR Programs

U. S. Department of Navy





# SBIR/STTR Programs: Seeding America's Innovations

Small Business Innovation Research & Small Business Technology Transfer (SBIR/STTR)

www.sbir.gov

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# Mission of the SBIR and STTR Programs





#### **Small Business Innovation Research (SBIR)**

- → Set-aside program for small business to engage in Federal R&D with potential for commercialization
- → 3.2% of the extramural research budget for agencies with a budget greater than \$100M per year

# \$2.2 billion set-aside each year



#### **Small Business Technology Transfer (STTR)**

- → Parallel set-aside program to facilitate cooperative R&D between small businesses and U.S. research institutions – with potential for commercialization
- → 0.45% of the extramural research budget for agencies with a budget greater than \$1B per year

\$290 million set-aside each year



# **Program Goals**

- → Meet Federal research and development needs
- → Increase private-sector commercialization of innovation derived from Federal research and development funding
- → Stimulate technological innovation
- → Foster and encourage participation in innovation and entrepreneurship by socially and economically disadvantaged persons
- → Foster technology transfer through cooperative R&D between small businesses and research institutions (STTR)

#### Why We Work on America's Seed Fund

www.sbir.gov/news/testimonials



# SBIR/STTR is a Gated Process w/ Three Phases

#### Phase I

Concept Development 6 months – 1 year ~ \$150,000

#### Phase II

Prototype Development 24 months ~ \$1,000,000

#### Phase III

Commercialization
No SBIR funding



#### Who Qualifies as a Small Business?

- Organized as for-profit U.S. business
- 500 or fewer employees including affiliates
- Work must be done in the U.S.
- Greater than 50% U.S.-owned by individuals and independently operated

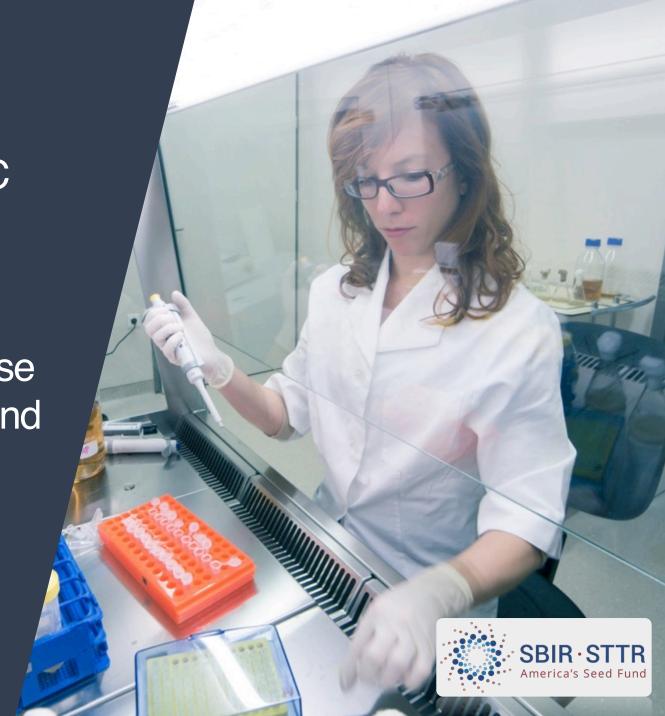


# **Principal Investigator (PI)**

→ Must be employed by the SBC (SBIR/STTR) or partnering research institution (STTR) at time of award

→ Should have appropriate expertise to oversee project scientifically and technically

→ Is **not** required to have a Ph.D./M.D.



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Partnering Requirement	Permits partnering	Requires a non-profit research institution partner



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Participating Agencies	11 agencies (extramural R&D budget > \$100M)	5 agencies (extramural R&D budget > \$1B)

The small business is ALWAYS the applicant and awardee!

#### Agencies that Participate in SBIR & STTR

Department of Agriculture (USDA)

Department of Commerce (DoC) NIST, NOAA

Department of Defense (DoD)

Department of Education (ED)

Department of Energy (DOE)

Department of Health and Human Services (HHS)

Department of Homeland Security (DHS)

Department of Transportation (DOT)

Environmental Protection Agency (EPA)

National
Aeronautics and
Space
Administration
(NASA)

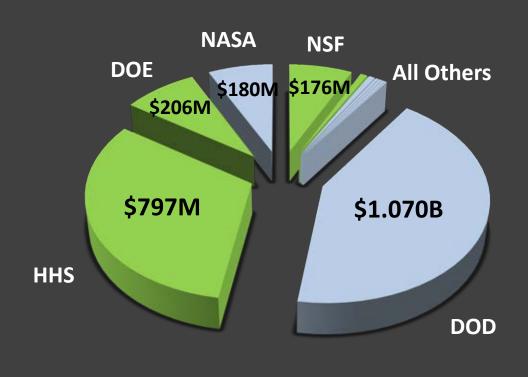
National Science Foundation (NSF)



# SBIR/STTR Budget by Agency, FY2015

Agencies with SBIR/STTR Programs	Budget		
Department of Defense (DOD)	\$ 1.070 B		
Department of Health and Human Services (HHS), including the National Institutes of Health (NIH)*	\$797.0 M		
Department of Energy (DOE), including Advanced Research Projects Agency – Energy (ARPA-E)	\$206.1M		
National Aeronautics and Space Administration (NASA)	\$ 180.1 M		
National Science Foundation (NSF)	\$176.0 M		

Agencies with SBIR Programs	Budget		
U.S. Department of Agriculture (USDA)	\$20.3M		
Department of Homeland Security (DHS): Science and Technology Directorate (S&T) and Domestic Nuclear Detection Office (DNDO)	\$17.7 M		
Department of Commerce*: National Oceanic and Atmospheric Administration (NOAA) and National Institute of Standards and Technology (NIST)	\$8.4M		
Department of Transportation (DOT)	\$7.9 M		
Department of Education (ED)	\$7.5 M		
Environmental Protection Agency (EPA)	\$4.2 M		





\$2.25B SBIR \$296M STTR



<sup>\*</sup> Provides grants and contracts

# **Typical Application Process**

Find Solicitation

Proposal Submission

**Evaluation** 





# Required Registrations Vary by Agency

	NASA	HHS	NSF	DOE	DOD
DUNS	X	X	X	X	x
SAM.gov	X	X	X	X	x
Company Registry (SBIR.gov)	X	X	X	X	x
Grants.gov		X		X	
eRA Commons		X			
Electronic Handbook (EHB)	X				
NSF FastLane			X		
Portfolio Analysis and Management System (PAMS)				X	
fedconnect.net				X	
Funding Accountability and Transparency Act Sub-award Reporting System				X	
DoD Submission Website					x



# www.sbir.gov



#### LEARN ABOUT

- Overview
- Policy Directive
- Authorization Act
- Intellectual Property
- Commercialization Successes
- FAQs
- Performance Benchmarks
- Participating Agencies
- How to Apply
- Report Fraud, Waste & Abuse





- Awardee
- Investor
- Large Business
- Agency Representative



#### I WANT TO ...

SBA START A SMALL BUSINESS

REGISTER MY COMPANY

UPDATE MY COMPANY PROFILE/COMMERCIALIZATION

SUBSCRIBE TO SOLICITATION POSTINGS

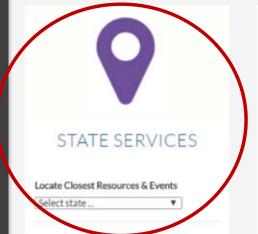
CONTACT AN SBIR AGENCY

SUBMIT AN SBIR/STTR RELATED EVENT

FILE FOR IP PROTECTION

LEARN MORE ABOUT GLOBAL INNOVATION EXCHANGE

VIEW SELF HELP ONLINE TUTORIALS

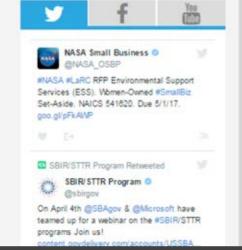




**NEWS** 

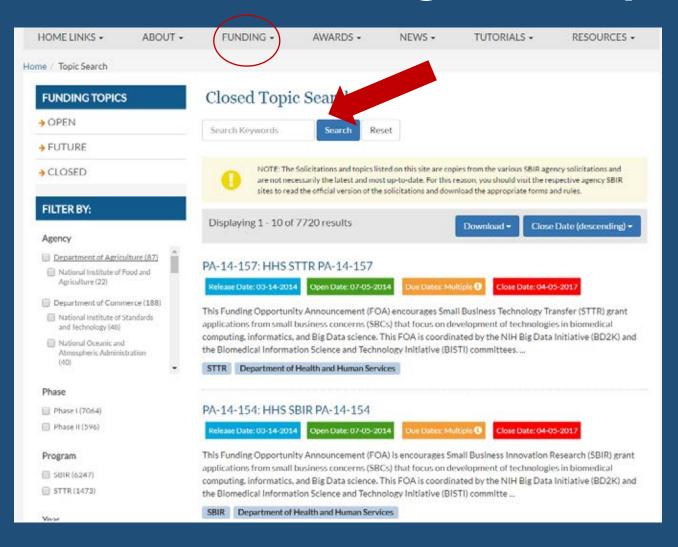
Jazz Up Your Knowledge of NIH at the Spring 2017 NIH Regional Seminar in New Orleans

SBIR Pulse: 2016 Tibbetts Awards Special Edition (O&A with EnChroma CEO and





#### Where to the Begin? – Topic Searches



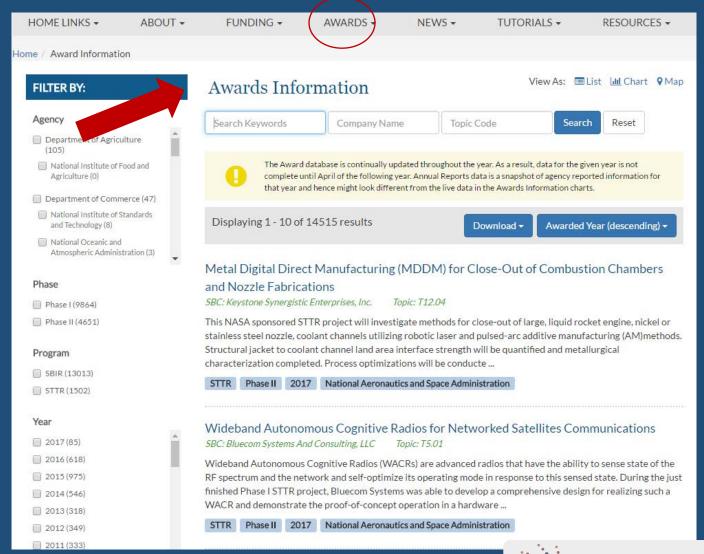
- → Topic Searches
  - → Keyword searches Learn which agencies fund your technology!





#### Where to the Begin? – Award Searches

- → Keyword Award searches
  - → Identify successful firms
  - → Identify agency investments in technology areas



#### **On-line Tutorials**

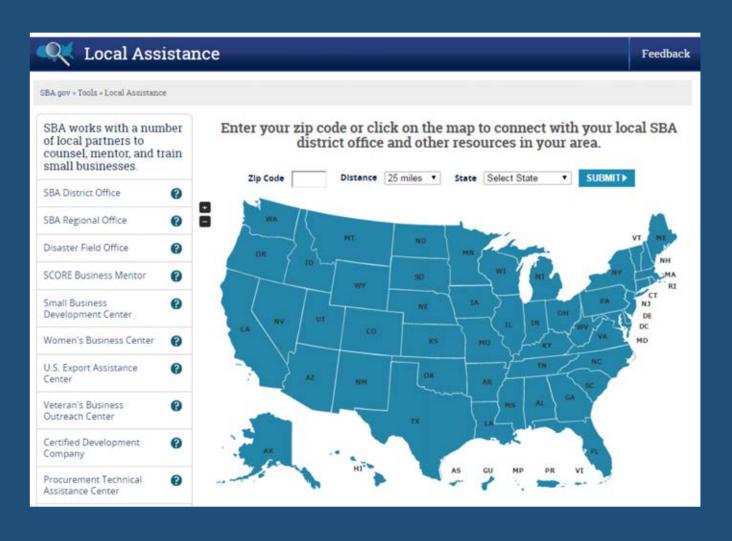


- → Open to everyone
- → For those interested in learning more about SBIR/STTR
- → Agency Introductions
- → Program Basics
- → 11 Modules

www.sbir.gov/tutorials



#### Connect to Your Network of Local Support



- → SBA District Offices
- → Small Business Development Centers (SBDCs)
- → Procurement Technical
   Assistance Centers (PTACs)
- → Women's Business Centers
- → SCORE Business Mentors
- → Veterans Business Outreach Centers (VBOCs)

www.sba.gov/tools/local-assistance

# **Stay In Touch**



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